26-Mar-18

12th Congress of the World Federation of Nuclear Medicine and Biology

20-24 April 2018
Melbourne Convention and Exhibition Centre

TRACK: Cardiology

Saturday 21 April 2018

10:30-12	**CARDIOLOGY 1 - DOING IT RIGHT**		
	Chairs:TBC		
10:30-10:50	**1. INCAPS and Radiation Protection** Learning Objectives: i) To review the results of the IAEA INCAPS study which evaluated current nuclear cardiology practices in 65 countries. ii) Discuss main opportunities to reduce radiation exposure to patients	Dr João Vitola, Quanta Diagnosis and Therapy, Curitiba, Brazil	20 min
10:50-11:10	**2. Appropriate Use Criteria** Learning Objectives: i) Understand the rationale of the AUC ii) Understand practical application of the AUC iii) Understand the scientific data supporting the use of AUC	Prof. Prem Soman, University of Pittsburgh, USA	20 min
11:10-:11:30	**3. What's best for women in 2018 –** Learning Objectives: 1. To understand sex related differences in cardiovascular disease physiology, presentation, and outcomes and the role of current imaging modalities for their diagnosis and management. 2. To acknowledge the need for sex- specific research and improved representation in clinical trials.	Dr Paula Averbuj, Adelaide, Australia	20 min
11:30-11:50	**4. Why PET, or will SPECT suffice** Learning Objectives: i) To become aware of characteristics of PET imaging among various cardiac imaging modalities ii) To describe how myocardial blood flow and coronary flow reserve can be estimated by PET perfusion studies and what clinical values of these parameters iii) To understand advantages and disadvantages of PET perfusion studies over SPECT perfusion ones.	Prof Nagara Tamaki, Kyoto Prefectural University of Medicine, Kyoto, Japan	20 min
11:50-12:00	**Panel Discussion**		10 mins
16:15-17:45	**CARDIOLOGY 2- CARDIAC PET**		
	Chairs: A/Prof. Victor Kalff		
16:15-16:45	**1 .Novel Imaging in Inflammation - The role of PET in infection, vasculitis and sarcoid.** Learning objectives: i) Recognize the role of PET imaging in the diagnosis and managment of cardiovascular infection. ii) Identify the role of PET imaging in the diagnosis and managment of vasculitis. iii) the role of PET in diagnosing and managing sarcoid.	Prof Girish Dwinda, Harry Perkins Institute of Medical Research, The University of Western Australia, Perth, Australia	30 mins
16:45-17:05	**2. Coronary Flow reserve and perfusion imaging –** Learning objectives: After this lecture the attendees will be able to: i) Describe the physiology of coronary flow and flow reserve ii) List the protocols for PET myocardial perfusion imaging.	Prof. Sharmila Dorbala, Brigham and Women's Hospital and Harvard Medical School, Boston, USA	20 mins
17:05-17:30	**3. Read with an Expert - Interesting cases** Learning Objectives: i) To practice how to read cardiac PET perfusion and myocardial FDG-PET images in patients with coronary artery disease and various myocardial disorders ii) To understand advantages cardiac PET studies in clinical setting.	Prof Nagara Tamaki, Kyoto Prefectural University of Medicine, Kyoto, Japan	25 mins
17:30-17:45	**Panel Discussion**		15 mins

Sunday 22 April 2018

10:30-12	CARDIOLOGY 3- DIAGNOSIS AND PROGNOSIS		
	Chair: Prof Prem Soman		
10:30-10:50	**1. MPI for Diagnosis and Prognosis – Clinical Indications and Appropriate Use in 2018** Learning objectives i) Review indications for MPI in 2018 ii) Compare appropriate choice of modality for varying indications iii) Appreciate the role of Appropriate Use Criteria	A/Prof William Van Gaal, Northern Hospital , Victoria	20 min
10:50-11:10	**2. Novel tracers – can MIBG or BMIPP help?** Learning Objectives: i) To become aware of characteristics of MIBG imaging and its clinical values in terms of diagnosis and prognosis ii) To become aware of characteristics of BMIPP imaging and its clinical values in terms of diagnosis and prognosis	Prof Nagara Tamaki, Kyoto Prefectural University of Medicine, Kyoto, Japan	20 min
11:10-:11:30	**3. ISCHAEMIA trial – Is this the final word?** Learning Objectives i) To review the current status of the multicenter international NIH sponsored ISCHEMIA trial ii) Discuss the current status of imaging driven revascularization.	Dr João Vitola, Quanta Diagnosis and Therapy, Curitiba, Brazil	20 min
11:30-11:50	**4. Read with an Expert - Patient Centred Imaging – where does MPI fit in?** Learning Objectives: i) Discuss appropriate indications for MPI ii) Discuss relative role of MPI in patient care.	Prof. Prem Soman, University of Pittsburgh, USA	20 min
11:50-12:00	**Panel Discussion**		10 mins
14:00-15:30	**CARDIOLOGY 4 – CARDIAC CT**	**Speaker**	Time
	Chair: Dr Robert Mansberg and Prof. Sharmila Dorbala		
14:00-14:20	**1. Cardiac CT - Current status: Diagnosis, prognosis and incorporating the NICE guidelines** Learning Objectives I. Understand the strength and limitations of cardiac CT in the assessment of stable CAD II. Review the new NICE guidelines for assessment of stable CAD III. Recognize the applicability of the NICE guidelines for assessment of stable CAD.	Dr. Sujith Seneviratne, Monash Health, Melbourne, Australia	20 mins
14:20-14:40	**2. CT Coronary Calcium Scoring In Chest Pain Patients Improves Prediction Of Adverse Cardiac Events Independent of SPECT Myocardial Perfusion Imaging** Learning Objectives: i) How to visually score coronary calcium on Chest CT attenuation correction scans ii) The powerful negative predictive value of a coronary calcium score of ZERO iii) The value of reporting coronary calcium with SPECT MPI.	Dr. Stephen Stowers, Palmerston North, NZ	20 mins
14:40-15:00	**3. Assessment of Ischemia using Cardiac CT- CT FFR and Perfusion imaging** learning Objectives i) Highlight the current limitations of Cardiac CT in accurately identifying hemodynamically significant lesions ii) Current status of CT perfusion iii) Current status of CT FFR and novel techniques to assess FFR non-invasively.	Dr. Sujith Seneviratne, Monash Health, Melbourne, Australia	20 mins
15:00-15:20	**4. Read with an Expert - The intermediate lesion – what does a clinician do in 2018?** Learning Objectives: i) Appreciate the challenges of stenosis quantification by cardiac CT ii) Appreciate the options for testing after discovery of an intermediate lesion on cardiac CT iii) Understand the role of functional testing after cardiac CT.	Dr Subodh Joshi, Royal Melbourne Hospital, Australia	20mins
15:20-15:30	**Panel Discussion**		10 mins
16:15-17:45	**CARDIOLOGY 5 – MULTIMODALITY IMAGING IN HEART FAILURE**		
	Chairs: Prof. Kenichi Nakajima and Dr Fiona Murton		
16:15-16:35	**1. Amyloid** Learning objectives: i) Understand the current epidemiology of cardiac amyloidosis ii) Understand the role of Tc-99m PYP in cardiac amyloidosis.	A/Prof. Prem Soman, University of Pittsburgh, USA	20 mins
16:35-16:55	**2. Multimodality Imaging in Heart Failure Sarcoid – latest guidelines** Learning objectives: After this lecture the attendees will be able to: i) Describe the imaging protocols for sarcoidosis ii) Understand the role of imaging in the diagnosis and risk assessment of patients with sarcoidosis.	Prof. Sharmila Dorbala, Brigham and Women's Hospital, and Harvard Medical School, Boston, USA	20 mins
16:55-17:15	**3. Multimodality Imaging in Heart Failure: Viability - what's new in MRI and echocardiography?** Learning Objectives: i) Understand the strengths and limitations of dobutamine stress echocardiography for the assessment of myocardial viability. ii) Understand the strengths and limitations of cardiac MRI for the assessment of myocardial viability.	Dr Subodh Joshi, Royal Melbourne Hospital, Australia	20 mins
17:15-17:35	**4. Viability – PET and SPECT** Learning objectives: After this lecture the attendees will be able to: i) Understand the role of PET and SPECT in assessing cardiac viability ii) Understand the role of imaging in the diagnosis and risk assessment of patients with poor cardiac viability.	Prof Girish Dwinda, Harry Perkins Institute of Medical Research, The University of Western Australia, Perth, Australia	20 min
17:35-17:45	**Panel Discussion**		10 mins

Monday 23 April 2018

16:15-17:45	CARDIOLOGY 6: READ WITH THE EXPERTS – SHOW US YOUR BEST		
	Chairs: Dr João Vitola, Quanta Diagnosis and Therapy, Curitiba, Brazil **Dr Paula Averbuj**		
16:15-16:45	**1. Read with the Experts – show us your best! MPI** Learning objectives: i) Prognostic vale of myocardial perfusion imaging ii) Comparison of cardiac imaging techniques iii) The value of adding coronary calcification scores to myocardial perfusion imaging	Dr Steven Unger, Adelaide, Australia	20 mins
16:45-17:05	**2. Heart failure and MIBG** Learning objectives i) Understand the standardized approach for I-123 MIBG imaging ii) How to use I-123 MIBG for risk stratification.	Prof. Kenichi Nakajima Kanazawa University, Japan	20 mins
17:05-17:25	**3. Read with the Experts - show us your best in PET** Learning objectives: After this lecture the attendees will be able to: i) Identify artifacts with PET myocardial perfusion imaging ii) Systematically interpret and report cardiac PET images.	Prof. Sharmila Dorbala, Brigham and Women's Hospital and Harvard Medical School, Boston, USA	20 mins
17:25-17:35	**4. Read with the Experts: Nuclear Cardiology and Oncology - A marriage in 2018** Learning objectives: i). Assessing LV function and monitoring chemotherapy. Ii). Assessing perioperative risk .	Dr Samuel Wright, MIA Victoria, Australia	20 min
17:35-17:45	**Panel Discussion**		10 mins

Tuesday 24 April 2018

10:30-12	CARDIOLOGY 7 – GLOBAL NUCLEAR CARDIOLOGY		
	Chair: Dr Barry Elison		
10:30-10:45	**1. The role of Nuclear Cardiology In Clinical Practice in 2018 In Australia and New Zealand** Learning Objectives i) Understand the basis and evidence for the ongoing use of Nuclear Cardiology in 2018 ii) Understand the similarities and differences between Nuclear Cardiology and other modalities, and how they fit in the management of patients. iii) The future role of Nuclear Cardiology.	Dr Samuel Wright, MIA Victoria, Australia	15 min
10:45-11:00	**2. In North America** Learning Objectives i) Discuss current practice of nuclear cardiology in North America ii) Discuss current challenges faced by nuclear cardiology in North America	Prof. Prem Soman, University of Pittsburgh, USA	15 min
11:00-:11:15	**3. In Latin America** Learning Objectives i) Review , from an international perspective, the opportunities and challenges to nuclear cardiology around the world and in Latin America ii) Discuss how nuclear cardiology integrates with multimodality	Dr João Vitola, Quanta Diagnosis and Therapy, Curitiba, BrazIL	15 min
11:15-11:30	**4. In Europe** Learning Objectives i) Review the current utilization of nuclear cardiology in Europe ii) Recognize the barriers for appropriate utilization of nuclear cardiology in Europe iii) Discuss tools to enhance appropriate utilization of nuclear cardiology in Europe	Prof. Ignassi Carrio, Hospital Sant Pau, Barcelona, Spain	15 min
11:30-11:45	**5. In Africa** Learning Objectives i) Recognize the barriers for appropriate utilization of nuclear cardiology in Africa, including limited collaboration with cardiologists, capital expense and high tracer costs, Indications and protocols. ii) Understand how to deal with discordant test results including the underestimation of the extent of ischemia/CAD; Common Pitfalls and over reporting i) Understand that Infection is a common cause of cardiovascular inflammation with Interpretation and potential clinical utility in patient management, especially in HIV and TB patients.	Prof. Mike Sathekge, University of Pretoria & Steve Biko Academic Hospital, South Africa	15 mins
11:45-12:00	**6. Current status and local challenges in Asia** LEARNING Objectives i) Understand the need for population-specific databases ii) Evidence-based approach in Japan and Asia	Prof. Kenichi Nakajima, Kanazawa University, Japan	15 min
13:00-14:30	**CARDIOLOGY8-SESSION 8 – CONTROVERSY CORNER**	**Speaker**	
	Chair: A/Prof Nathan Better	**15 MINUTE TALK, 5 MINUTE REBUTTAL EACH. 5 MINUTES QUESTIONS FROM AUDIENCE.**	
13:00-13:15	**Controversy Corner Part 1** **Who's on First? – Anatomy vs Function to investigate chest pain** **Anatomy utilising non invasive CTCA will continue to replace and dominate functional assessment of chest pain.** Learning objectives i) Update the current understanding of the impact of anatomical imaging (CTCA) and its role in the investigative algorithm of chest pain since the worldwide acceptance of the relevance of this modality ii) To update the understanding of recent literature in order to justify the significance of this modality as a primary investigative pathway iii) To generate an understanding of how this modality , although predominantly believed to be anatomical can provide substantial functional data . iv) Outline how vast improvements in technical aspects Various scanners have assisted in dispelling myths regarding this technology.	Dr Barry Elison, Wollongong, Australia	15 min
13:15-13:30	**Anatomy vs Function to investigate chest pain - Function wins** Learning Objectives: i) Discuss pros and cons of different strategies to investigate chest pain ii) Highlight the importance of physiologic parameters to estimate risk and guide patient management.	Dr João Vitola, Quanta Diagnosis and Therapy, Curitiba, Brazil	15 min
13:30-13:45	**5 MINUTE REBUTTAL EACH. 5 MINUTES QUESTIONS FROM AUDIENCE**		15 min
13:45-14:00	**Controversy Corner Part 2** **Owning a PET – treating it with respect-PET wins** Learning objectives: After this lecture the attendees will be able to: i. List advantages of cardiac PET ii. Identify clinical scenarios where PET may be superior to SPECT.	Prof. Sharmila Dorbala, Brigham and Women's Hospital and Harvard Medical School, Boston, USA	15 min
14:00-14:15	**Controversy Corner Part 2** **Owning a PET – treating it with respect-SPECT wins** Learning objectives: i) Understanding the relative strengths of SPECT MPI ii) Understanding the relative roles of SPECT and PET MPI	Prof. Prem Soman, University of Pittsburgh, USA	15 min
14:15-14:30	**5 MINUTE REBUTTAL EACH. 5 MINUTES QUESTIONS FROM AUDIENCE**		15 min